

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	229389	("73").CLAS	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/03/24 14:23
S2	1	"542616".ap.	US-PGPUB	OR	ON	2007/03/26 08:57
S3	187	(73/64.53).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/03/26 09:39
S4	50	("5705399").URPN.	USPAT	OR	ON	2007/03/26 09:09
S5	16	("3853467"   "3879992"   "4242096"   "4314821"   "4410633"   "4644804"   "4735906"   "4737456"   "4847193"   "4999284"   "5001053"   "5135852"   "5179028"   "5270166"   "5283037"   "5455475").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 09:49
S6	130	(310/323.21).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/03/26 09:16
S7	229389	("73").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/03/26 09:32
S8	59	S7 and (piezoelectric quartz adj crystal) with (resonator vibrat\$3 oscillat\$3) and surface adj area with electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/26 09:44
S9	144	(73/61.79).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/03/26 09:39
S10	1	("4242096").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 09:43
S11	33	("4242096").URPN.	USPAT	OR	ON	2007/03/26 09:43

S12	1	("4054646").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 09:44
S13	384	(piezoelectric quartz adj crystal) with (resonator vibrat\$3 oscillat\$3) and surface adj area with electrode not S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/26 09:45
S14	2	("5942836"   "6196059").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 09:50
S15	10	(US-20060107733-\$). did. or (US-5705399-\$ or US-6295861-\$ or US- 5945774-\$ or US- 5455475-\$ or US- 4644804-\$ or US- 5852229-\$ or US- 4242096-\$).did. or (JP- 04009742-\$ or JP- 02118434-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2007/03/26 09:53
S16	5	S15 and (surface adj area geometry) with electrode	US-PGPUB; USPAT; JPO	OR	ON	2007/03/26 13:39
S17	12	("4644804").URPN.	USPAT	OR	ON	2007/03/26 09:57
S18	9	("2969514"   "3392576"   "3505875"   "4339011"   "4435986"   "4479070").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 09:57
S19	16	("2483829"   "3260104"   "3561253"   "3879992"   "4236893"   "4242096"   "4721874"   "4741200"   "4870313"   "5201215"   "5211053"   "5235238"   "5283037").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 09:57
S20	35	("5455475").URPN.	USPAT	OR	ON	2007/03/26 09:58

S21	13	(US-20060107733-\$). did. or (US-5705399-\$ or US-6295861-\$ or US- 5945774-\$ or US- 5455475-\$ or US- 4644804-\$ or US- 5852229-\$ or US- 4242096-\$ or US- 5201215-\$ or US- 4741200-\$ or US- 3561253-\$).did. or (JP- 04009742-\$ or JP- 02118434-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2007/03/26 13:34
S22	6	S21 and ("TSM" shear adj mode)	US-PGPUB; USPAT; JPO	OR	ON	2007/03/26 13:34
S23	229389	("73").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/03/26 13:39
S24	855	S23 and (surface adj area geometry) with electrode	US-PGPUB; USPAT; JPO	OR	ON	2007/03/26 13:39
S25	6	S21 and (surface adj area geometry) with electrode	US-PGPUB; USPAT; JPO	OR	ON	2007/03/26 14:39
S26	4	S21 and (surface adj area geometry) with electrode and ("TSM" shear adj mode)	US-PGPUB; USPAT; JPO	OR	ON	2007/03/26 14:39
S27	42	("5455475").URPN.	USPAT	OR	ON	2007/09/18 15:07
S28	16	("2483829"   "3260104"   "3561253"   "3879992"   "4236893"   "4242096"   "4721874"   "4741200"   "4870313"   "5201215"   "5211053"   "5235238"   "5283037").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/18 15:14
S29	232117	("73").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/09/18 16:01
S30	61	S29 and (piezoelectric quartz adj crystal) with (resonator vibrat\$3 oscillat\$3) and surface adj area with electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/18 16:01

S31	12	(US-5852229-\$ or US-5455475-\$ or US-4644804-\$ or US-4242096-\$ or US-5705399-\$ or US-6295861-\$ or US-5945774-\$ or US-4741200-\$ or US-5201215-\$ or US-3561253-\$).did. or (JP-04009742-\$ or JP-02118434-\$).did.	USPAT; JPO	OR	ON	2007/09/18 18:41
S32	14	(US-20060107733-\$). did. or (US-5852229-\$ or US-5455475-\$ or US-4644804-\$ or US-4242096-\$ or US-5705399-\$ or US-6295861-\$ or US-5945774-\$ or US-4741200-\$ or US-5201215-\$ or US-3561253-\$ or US-4870313-\$).did. or (JP-04009742-\$ or JP-02118434-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2007/09/18 18:41
S33	2	S32 not S31	US-PGPUB; USPAT; JPO	OR	ON	2007/09/18 18:41
S34	1	("3694677" ).PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/27 08:03
S35	30	("3694677").URPN.	USPAT	OR	ON	2008/02/27 08:04
S36	11	("2498737"   "3363119"   "3382381"   "3396287"   "3569750"   "3576453"   "3585418").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/27 08:06
S37	17	(US-20060107733-\$). did. or (US-5705399-\$ or US-4242096-\$ or US-4644804-\$ or US-5455475-\$ or US-4741200-\$ or US-5201215-\$ or US-4870313-\$ or US-5945774-\$ or US-5852229-\$ or US-6295861-\$ or US-3561253-\$ or US-3694677-\$ or US-5235240-\$ or US-4656707-\$).did. or (JP-04009742-\$ or JP-	US-PGPUB; USPAT; JPO	OR	ON	2008/02/27 08:11

		02118434-\$.did.				
S38	1	("6904786" ).PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/10 15:27
S39	75	( "20020068488"   "20020070841"   "20020137348"   "3622968"   "3718032"   "3778757"   "3902365"   "3903732"   "4342936"   "4349881"   "4370662"   "4391338"   "4526480"   "4543829"   "4596697"   "4721874"   "4729237"   "4734609"   "4741200"   "4760351"   "4767719"   "4779451"   "4783987"   "4812698"   "4890480"   "4910523"   "4922745"   "5179028"   "5191791"   "5201215"   "5224174"   "5235844"   "5253530"   "5283037"   "5296374"   "5306644"   "5338416"   "5357964"   "5375470"   "5421190"   "5445008"   "5454045"   "5455475"   "5464509"   "5469369"   "5488866"   "5524636"   "5531091"   "5571401"   "5653939"   "5661233"   "5689288"   "5698089"   "5705399"   "5734098"   "5741961"   "5744902"   "5770038"   "5776359"   "5798452"   "5827952"   "5852229"   "5889351"   "5985356"   "6044694"   "6182499"   "6269686"   "6275137"   "6311549"   "6336353"   "6393895"   "6401519"   "6441716"   "6494079"   "6511915").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/10 16:06

S40	52	("4741200"). URPN.	USPAT	OR	ON	2008/04/10 16:15
S41	1	("6755073"). URPN.	USPAT	OR	ON	2008/04/10 16:18
S42	10	("20030000291"   "200300053936"   "4741200"   "5201215"   "5324542"   "5734098"   "6223588"   "6357278"   "6432362"   "6500547"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/10 16:18
S43	45	("5852229"). URPN.	USPAT	OR	ON	2008/04/10 16:20
S44	28	("4312228"   "4399686"   "4561286"   "4596697"   "4690715"   "4844613"   "4877747"   "4895017"   "4992385"   "5023053"   "5035863"   "5055265"   "5064619"   "5076094"   "5182135"   "5189902"   "5235238"   "5242828"   "5327225"   "5334303"   "5374563"   "5402075"   "5404756"   "5415842"   "5436161"   "5455475"   "5512131"   "5527711"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/10 16:23
S45	235285	("73"). CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/11 14:03
S46	213	S45 and (piezoelectric quartz crystal) with (resonator vibrat\$3 oscillat\$3) and (dimension surface adj area) with electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/11 14:03
S47	128	S46 and (piezoelectric quartz crystal) with (resonator vibrat\$3 oscillat\$3) and (dimension) with electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/11 14:04

S48	34	S47 and (quartz) with (resonator vibrat\$3 oscillat\$3) and (dimension) with electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/11 14:04
S49	15	("3744296"). URFN.	USPAT	OR	ON	2008/04/11 14:10
S50	6	("3194053"   "3260104"   "3329004"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/11 14:16
S51	613	S45 and (piezoelectric quartz crystal) with (resonator vibrat\$3 oscillat\$3) and (diameter length width) with electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/11 14:21
S52	190	S51 and (quartz) with (resonator vibrat\$3 oscillat\$3) and (diameter length width) with electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/11 14:23
S53	8241	(piezoelectric quartz crystal) with (resonator vibrat\$3 oscillat\$3) and (diameter length width) with electrode not S45	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/11 15:00
S54	1286	S53 and (quartz) with (resonator vibrat\$3 oscillat\$3) and (diameter length width) with electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/11 15:01
S55	61	S54 and (quartz) with (resonator vibrat\$3 oscillat\$3) and (diameter length width) with electrode and mass near3 (change alter detect)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/11 15:02
S56	6	("4236893"   "4242096"   "4314821"   "4735906"   "4789804"   "4999284"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/11 15:12
S57	55	S54 and (quartz) with (resonator vibrat\$3 oscillat\$3) and (diameter length width) with electrode same (sensor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/11 15:20

S58	8	frequency adj response and frequency adj (shift change) and resonant adj frequency and mass adj (change) and (density and modulus) with quartz	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/12 10:16
S59	18	sauerbrey and frequency adj (shift change) and resonant adj frequency and mass adj (change) and (density and modulus) with quartz	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/12 10:20
S60	1	("7140255" ).PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/12 15:15
S61	1	("6880407" ).PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/12 15:16
S62	2	("3258617" ).PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/12 15:16
S63	31	(US-20060107733-\$ or US-20060053870-\$ or US-20050039532-\$ or US-20030076743-\$). did. or (US-5705399-\$ or US-4242096-\$ or US-4644804-\$ or US-5455475-\$ or US-4741200-\$ or US-5201215-\$ or US-4870313-\$ or US-5945774-\$ or US-5852229-\$ or US-6295861-\$ or US-3561253-\$ or US-3694677-\$ or US-5235240-\$ or US-4656707-\$ or US-5744902-\$ or US-6755073-\$ or US-3744296-\$ or US-6513361-\$ or US-6029500-\$ or US-3329004-\$ or US-4562725-\$ or US-3879992-\$ or US-7329536-\$ or US-5501986-\$).did. or (JP-04009742-\$ or JP-02118434-\$ or JP-04236336-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2008/04/13 13:49



S64	20	S63 and (crystal quartz) with (diameter area)	US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT	OR	ON	2008/04/13 13:49
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